

A four-year simple before-after analysis of the crash statistics for three intersections converted into roundabouts was conducted. The following were the general observation of this evaluation analysis:

- Decrease in KA crashes (elimination of KA crashes on two sites)
- Decrease in BCO crashes
- Decrease in head-on, sideswipe opposite direction, rear-end and angle crashes
- Increase in single vehicle and sideswipe opposite direction crashes

Further details of the analysis for these roundabouts are provided below:

Category		Roundabout 1 (Hwy 365/100)			Roundabout 2 (Hwy 65/Winfield)			Roundabout 3 (Hwy 65/266)		
		Before	After	% Change	Before	After	% Change	Before	After	% Change
Crash Severity	Fatal - K	1	0	-100.0%	0	0	0.0%	0	0	0.0%
	Serious Injury - A	2	0	-100.0%	1	0	-100.0%	0	1	100.0%
	Moderate Injury - B	6	3	-50.0%	1	0	-100.0%	5	2	-60.0%
	Possible Injury - C	9	2	-77.8%	8	4	-50.0%	11	6	-45.5%
	Property Damage Only - O	50	18	-64.0%	27	28	3.7%	46	46	0.0%
Crash Type	Single Vehicle Crash	7	9	28.6%	2	4	100.0%	2	7	250.0%
	Head On	2	0	-100.0%	0	0	0.0%	2	0	-100.0%
	Sideswipe Opp. Direction	1	0	-100.0%	0	0	0.0%	1	0	-100.0%
	Sideswipe Same Direction	3	5	66.7%	5	12	140.0%	6	17	183.3%
	Angle	10	2	-80.0%	17	12	-29.4%	16	23	43.8%
	Rear End	45	7	-84.4%	13	4	-69.2%	34	8	-76.5%
	Backing	0	0	0.0%	0	0	0.0%	1	0	-100.0%
Light Condition	Daylight	53	21	-60.4%	30	25	-16.7%	54	50	-7.4%
	Dark	5	1	-80.0%	4	5	25.0%	5	4	-20.0%
	Dark but Lighted	4	1	-75.0%	3	2	-33.3%	1	1	0.0%
	Dawn	2	0	-100.0%	0	0	0.0%	2	0	-100.0%
	Dusk	4	0	-100.0%	0	0	0.0%	0	0	0.0%
Road Surface Condition	Dry	56	12	-78.6%	31	27	-12.9%	53	51	-3.8%
	Wet	11	8	-27.3%	5	5	0.0%	9	4	-55.6%
	Ice	0	2	200.0%	1	0	-100.0%	0	0	0.0%
	Other	1	1	0.0%	0	0	0.0%	0	0	0.0%
Total		68	23	-66.2%	37	32	-13.5%	62	55	-11.3%

**Summary of Crash Analysis
Intersection of
Highway 365, Section 11, logmile 16.74 - 16.94
and Highway 100, Section 1, logmile 0 - 0.13
Pulaski County
Before**

A crash analysis showed that 68 crashes occurred at the intersection of Highway 365, Section 11 from log mile 16.74 to log mile 16.94 and Highway 100, Section 1 from log mile 0 to log mile 0.13 in Pulaski County for the period June 1, 2008 through June 1, 2011. Further information is shown below.

Crash Severity

Fatal (K)	1
Serious Injury (A)	2
Moderate Injury (B)	6
Possible Injury (C)	9
Property Damage Only (O)	50

Light Condition

Daylight	53
Dark	5
Dark but Lighted	4
Dawn	2
Dusk	4

Crash Type

Single Vehicle Crash	7
Head On	2
Sideswipe Opp. Direction	1
Sideswipe Same Direction	3
Angle	10
Rear End	45
Backing	0

Road Surface Condition

Dry	56
Wet	11 (16%)
Ice	0
Other	1

Additional Information

Average Four-Year ADT (Hwy. 365)	16,500 vehicles per day per year
Average Four-Year ADT (Hwy. 100)	6,400 vehicles per day per year
Length (Hwy 365)	0.20 miles
Length (Hwy 100)	0.13 miles
Crash Frequency(Hwy 365)	21.00 crashes per year
Crash Frequency(Hwy 100)	1.67 crashes per year
KA Crash Frequency (Hwy 365)	0.67 KA crashes per year
KA Crash Frequency (Hwy 100)	0.33 KA crashes per year

AHTD:TPP:JP 02/08/2017

Summary of Crash Analysis **Intersection of** **Highway 365, Section 11, logmile 16.74 - 16.94** **and Highway 100, Section 1, logmile 0 - 0.13** **Pulaski County** **After**

A crash analysis showed that 23 crashes occurred at the intersection of Highway 365, Section 11 from log mile 16.74 to log mile 16.94 and Highway 100, Section 1 from log mile 0 to log mile 0.13 in Pulaski County for the period June 1, 2011 through June 1, 2014. Further information is shown below.

Crash Severity

Fatal (K)	0
Serious Injury (A)	0
Moderate Injury (B)	3
Possible Injury (C)	2
Property Damage Only (O)	18

Light Condition

Daylight	21
Dark	1
Dark but Lighted	1
Dawn	0

Crash Type

Single Vehicle Crash	9
Head On	0
Sideswipe Opp. Direction	0
Sideswipe Same Direction	5
Angle	2
Rear End	7
Backing	0

Road Surface Condition

Dry	12
Wet	8 (35%)
Ice	2
Other	1

Additional Information

Average Four-Year ADT (Hwy. 365)	16,375 vehicles per day per year
Average Four-Year ADT (Hwy. 100)	6,675 vehicles per day per year
Length (Hwy 365)	0.20 miles
Length (Hwy 100)	0.13 miles
Crash Frequency(Hwy 365)	5.67 crashes per year
Crash Frequency(Hwy 100)	2.00 crashes per year
KA Crash Frequency (Hwy 365)	0.00 KA crashes per year
KA Crash Frequency (Hwy 100)	0.00 KA crashes per year

AHTD:TPP:JP 02/08/2017

**Summary of Crash Analysis
Intersection of
Highway 65, Section 9B, logmile 0.705 - 0.905
Winfield Street, Steel Avenue
Faulkner County
Before**

A crash analysis showed that 37 crashes occurred on Highway 65, Section 9B from log mile 0.705 to log mile 0.905 in Faulkner County for the period March 3, 2008 through March 3, 2011. Further information is shown below.

Crash Severity

Fatal (K)	0
Serious Injury (A)	1
Moderate Injury (B)	1
Possible Injury (C)	8
Property Damage Only (O)	27

Light Condition

Daylight	30
Dark	4
Dark but Lighted	3
Dawn	0

Crash Type

Single Vehicle Crash	2
Head On	0
Sideswipe Opp. Direction	0
Sideswipe Same Direction	5
Angle	17
Rear End	13
Backing	0

Road Surface Condition

Dry	31
Wet	5 (14%)
Ice	1
Other	0

Additional Information

Average Four-Year ADT (Hwy. 65)	26,000 vehicles per day per year
Length (Hwy 65)	0.20 miles
Crash Frequency(Hwy 65)	12.33 crashes per year
KA Crash Frequency (Hwy 65)	0.33 KA crashes per year

AHTD:TPP:JP 02/07/2017

Summary of Crash Analysis **Intersection of** **Highway 65, Section 9B, logmile 0.705 - 0.905** **Winfield Street, Steel Avenue** **Faulkner County** **After**

A crash analysis showed that 32 crashes occurred on Highway 65, Section 9B from log mile 0.705 to log mile 0.905 in Faulkner County for the period March 3, 2011 through March 3, 2014. Further information is shown below.

Crash Severity

Fatal (K)	0
Serious Injury (A)	0
Moderate Injury (B)	0
Possible Injury (C)	4
Property Damage Only (O)	28

Light Condition

Daylight	25
Dark	5
Dark but Lighted	2
Dawn	0

Crash Type

Single Vehicle Crash	4
Head On	0
Sideswipe Opp. Direction	0
Sideswipe Same Direction	12
Angle	12
Rear End	4
Backing	0

Road Surface Condition

Dry	27
Wet	5 (16%)
Ice	0
Other	0

Additional Information

Average Four-Year ADT (Hwy. 65)	26,500 vehicles per day per year
Length (Hwy 65)	0.20 miles
Crash Frequency(Hwy 65)	10.67 crashes per year
KA Crash Frequency (Hwy 65)	0.00 KA crashes per year

AHTD:TPP:JP 02/07/2017

**Summary of Crash Analysis
Intersection of
Highway 65, Section 9B, logmile 0.95 - 1.15
and Highway 266, Section 1, logmile 0 - 0.1
Faulkner County
Before**

A crash analysis showed that 62 crashes occurred at the intersection of Highway 65, Section 9B from log mile 0.95 to log mile 1.15 and Highway 266, Section 1 from log mile 0 to log mile 0.1 in Faulkner County for the period March 3, 2008 through March 3, 2011. Further information is shown below.

Crash Severity

Fatal (K)	0
Serious Injury (A)	0
Moderate Injury (B)	5
Possible Injury (C)	11
Property Damage Only (O)	46

Light Condition

Daylight	54
Dark	5
Dark but Lighted	1
Dawn	2

Crash Type

Single Vehicle Crash	2
Head On	2
Sideswipe Opp. Direction	1
Sideswipe Same Direction	6
Angle	16
Rear End	34
Backing	1

Road Surface Condition

Dry	53
Wet	9 (15%)
Ice	0
Other	0

Additional Information

Average Four-Year ADT (Hwy. 65)	21,125 vehicles per day per year
Average Four-Year ADT (Hwy. 266)	9,975 vehicles per day per year
Length (Hwy 65)	0.20 miles
Length (Hwy 266)	0.10 miles
Crash Frequency(Hwy 65)	19.00 crashes per year
Crash Frequency(Hwy 266)	1.67 crashes per year
KA Crash Frequency (Hwy 65)	0.00 KA crashes per year
KA Crash Frequency (Hwy 266)	0.00 KA crashes per year

AHTD:TPP:JP 02/07/2017

Summary of Crash Analysis **Intersection of** **Highway 65, Section 9B, logmile 0.95 - 1.15** **and Highway 266, Section 1, logmile 0 - 0.1** **Faulkner County** **After**

A crash analysis showed that 55 crashes occurred at the intersection of Highway 65, Section 9B from log mile 0.95 to log mile 1.15 and Highway 266, Section 1 from log mile to log mile 0.1 in Faulkner County for the period March 3, 2011 through March 3, 2014. Further information is shown below.

Crash Severity

Fatal (K)	0
Serious Injury (A)	1 *
Moderate Injury (B)	2
Possible Injury (C)	6
Property Damage Only (O)	46

Light Condition

Daylight	50
Dark	4
Dark but Lighted	1
Dawn	0

Crash Type

Single Vehicle Crash	7
Head On	0
Sideswipe Opp. Direction	0
Sideswipe Same Direction	17
Angle	23
Rear End	8
Backing	0

Road Surface Condition

Dry	51
Wet	4 (7%)
Ice	0
Other	0

Additional Information

Average Five-Year ADT (Hwy. 65)	21,750 vehicles per day per year
Average Five-Year ADT (Hwy. 266)	10,300 vehicles per day per year
Length (Hwy 65)	0.20 miles
Length (Hwy 266)	0.10 miles
Crash Frequency(Hwy 65)	16.67 crashes per year
Crash Frequency(Hwy 266)	1.67 crashes per year
KA Crash Frequency (Hwy 65)	0.00 KA crashes per year
KA Crash Frequency (Hwy 266)	0.33 KA crashes per year

AHTD:TPP:JP 02/27/2017

*V1 was EB in the U.S. 65 Sec 9B roundabout merging onto Highway 266 when a cyclist that was NB hit the passenger side of V1.